

```

sp|P53350|-----MS-AAVTAGKLARA-----PADPGKAGVPGVAAPG--APAAAP
sp|Q9NYY3|MELLRTITYQPAASTKMCQALGKGCADSKKKRPPQPPEESQPPQSQAQVPPAAPHHH
sp|Q9H4B4|-----MEPAAG-FLSPRPFORTAAATA-----PPAGPG---PPPSALRGPELEMLAGL
: . . * : * * *

sp|P53350|PAKEIP---EVLVDPRSRRRYVRGRFLGKGGFAKCFEISDADTKEVFAGKIVPKSLLLK
sp|Q9NYY3|HSHSGPEISRIIVDPTTGKRYCRGKVLGKGGFAKCYEMTDLTNMKVYAAKIIPHSRVAK
sp|Q9H4B4|PTSDPG---RLITDPRSGRTYLGKRLGKGGFARCYEATDTEGSAVAVKVIQSRVVK
.. :. : * : * : * : * : * : * : * : * : * : * : * : * : *

sp|P53350|PHQREKMSMEISIHRSIAHQHVVGFFHGFEDNDFVIVVLELCRRRSLELHKRRKALTPE
sp|Q9NYY3|PHQREKIDKEIELHRI LHHKHVVQFYHYFEDKENIYILEYCSRRSMAHILKARKVLTEP
sp|Q9H4B4|PHQREKILNEIELHRDLQHRHIVRFSHFEDADNIYIFLELCRSKSLAHIWKARHTLLEP
*****: ** : ** * * : * * * : : : * * * : * : * * : * *

sp|P53350|EARYYLRQIVLGCQYLHRNRVIHRDLKLGFLNEDLEVKIGDFGLATKVEYDGERKCTL
sp|Q9NYY3|EVRYYLRQIVSGLKYLHEQEILHRDLKLGNFINEAMELKVGDFGLAARLEPLEHRRRTI
sp|Q9H4B4|EVRYYLRQIILSGLKYLHQEILHRDLKGNFFITENMELKVGDFGLAARLEPEQRKTI
* . *****: * : * * . : : *****: * : * : * : * : * : * : * : * : *

sp|P53350|CGTPNYIAPEVLSKKGHSFEVDVWSIGCIMYTLVGKPPFETSLKETYLRIKNEYSIP
sp|Q9NYY3|CGTPNYLSPEVLNKGQHGCESDI WALGCVMYTLLGRPPFETTLNKETYRCIREARYTMP
sp|Q9H4B4|CGTPNYVAPEVLLRQGHGPEADVWSLGCVMYTLGCSPPFETADLKETYRCIKQVHYTLP
*****: * * : * * * * : * : * : * : * : * : * : * : * : * : * : *

sp|P53350|KHINPVAASLIQKMLQTDPTARPTINELLNDEFFTSGYIPARLPIT-CLTIP-----PR
sp|Q9NYY3|SSLLAPAKHLIASMLSKNPEDRPSLDDIIRHDFLQGFYTPDRLSSSCCHTVPDFHLSPPA
sp|Q9H4B4|ASLSLPARQLLAAILRASPRDRPSIDQILRHDFFTKGYPDRLPISSCVTPDLPNPA
: * * : * * * * : : : * : * * : * * : *

sp|P53350|---FSIAPSSLDPSNRK-----P---LTVLNKGLENP-----LPER-----
sp|Q9NYY3|KNFFKKAALFPGGKDKARYIDTHNRVSKEDEDIYKLRHDLKKTSTIQQPSKHRTDEEL
sp|Q9H4B4|RSLFAKVTKSLFVRKKK-----SKNHAQERDE-VSGLVSGLMRTSVGHQDAR-----
* . : * : : : * * . :

sp|P53350|--PRE----KEEPVVR-ET-----GEVVDCHLSDMLQQLHSVNASKPSEGLVR
sp|Q9NYY3|QPPTTVARSGTPAVENKQOIGDAIRMIVRGTLGSCSSSSECLEDESTMGSVADTVARVLR
sp|Q9H4B4|--PEAPAASGPAPVSLVETAPEDSS--PRGTLASSGHG--FEEGLTVATVVESALCALR
* * : : * : : : : : : :

sp|P53350|--QEEAEDPACIP-----IFWVSKWVDYSDKYGLGYQLCDNSVGVLFNDSTRILILYN
sp|Q9NYY3|GCLENMPEADCIPKEQLSTS-FQWVTWKVDYSNKYGFGYQLSDHTVGVLFNNGAHMSLLP
sp|Q9H4B4|NCIAFMPPAEQNPAPLAQPEPLVWFSEWVGFSNKGFGYQLSSRRVAVLFNDGTHMALSA
. * : : * : * : * : * : * : * : * : * : * : * : * : * : * : *

sp|P53350|DGDSLQYIERDGTESYLTVSSHPSNLMKKITLKYFRNYMSEHLLKAGANITPREGDELA
sp|Q9NYY3|DKKTVHYAELGQCSVFPATDAPEQFISQVTVLKYFSHYMEENLMDGG-DLPSVTDIIRP
sp|Q9H4B4|NRKTVHYNPTSTKHFSFSGAVRRALQPOLGILRYFASYMEQHLMKGG-DLPSVEEVEVP
: : : * : . : : : * : * : * : * : * : * : * : * : * : *

sp|P53350|RLPYLRTWFRTRSAILHLNNGSVQINFFQDHTKLILCP--LMAAVTYIDEKRDFRTYRL
sp|Q9NYY3|R-LYLLQWLKSDKALMMLFNDGTQVNFYHDHTKIIICSONEYELLTYINEDRISTTFR
sp|Q9H4B4|APPLLLQWVKTDQALLMLFSDGTQVNFYGDHTKLILSG-WEPLLVTFVARNRSACTYLA
* * : : * : : : * : * : * : * : * : * : * : * : * : * : * : *

sp|P53350|SLLEEYGCCKELASRLRYARTMVDKLLSSRSASNRLKAS
sp|Q9NYY3|TTLMSGCSSELKNRMEYA---LNMLLQRCN-----
sp|Q9H4B4|SHLRQLGCSPLDRQLRYA---LRLLRDRSPA-----
: * * * : * * : * * : * : * : * : * : * : * : * : * : * : *

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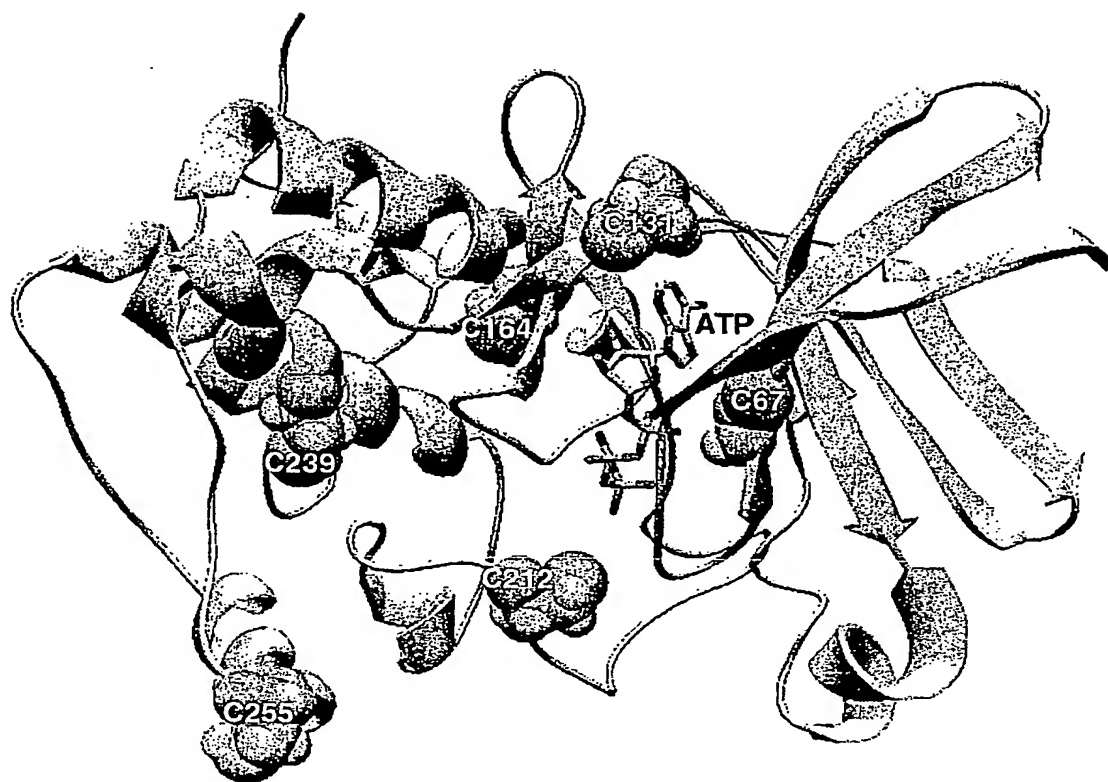


FIGURE 2

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1	MSAAVTAGKLARAPADPGKAGVPGVAAPGAPAAAPPAKE---	IPEVLVDP	47	PLK1
	 :. ...		
1	MGNAAAAGKKGSEQESVKEFLAKA		23	PKA
48	RS-----RRRYVRGRFLGKGGAFAKCFEISDADTKEVFAGK		82	PLK1
	:. :...			
24	KEDFLKKWESPAQNTAHLDOFERIKTLGTGSFGRVMLVKHKETGNHYAMK		73	PKA
83	IVPKSLLLKPHQREKMSMEISTHRS LAHQHVVGFGHGFEDNDFVFWLEL		132	PLK1
	:			
74	ILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVMEY		123	PKA
133	CRRRSLLLELHKRRKALTEPEARYYLROQIVLGCOYLHRNRVIHRDLKLGNL		182	PLK1
: ...:			
124	VPGGEMFSLRLRRIGRFSEPHARFYAAQIVLTFEYLHSLDLTYRDLKPENL		173	PKA
183	FLNEDLEVKIGDFGLATKVEYDGERKKTLOGTPNYIAPEVLSKKGHSFEV		232	PLK1
:			
174	LIDQQGYIQVIDFGFAKRVK---GRTWTLCGTPEYLAPETILSKGYNKAV		220	PKA
233	DVWSIGCIMYTLIVGKPPFETSCLKETYLRIKKNEYSIPKHINPVAASLI		282	PLK1
			
221	DWWALGVLIYEMAAGYPFFADQPIQIYEKIVSGKVRFPSPHFSSDLKDLL		270	PKA
283	QKMLQTDPTAR-----PTINELLNDEFF-TSGYIPARLPITCLTIPPRFS		326	PLK1
	:...			
271	RNLLQVDLTKRFGNLKNGVNDIKNHKWFATIDWIAIYQRKVEAPFTIPKFK		320	PKA

FIGURE 3

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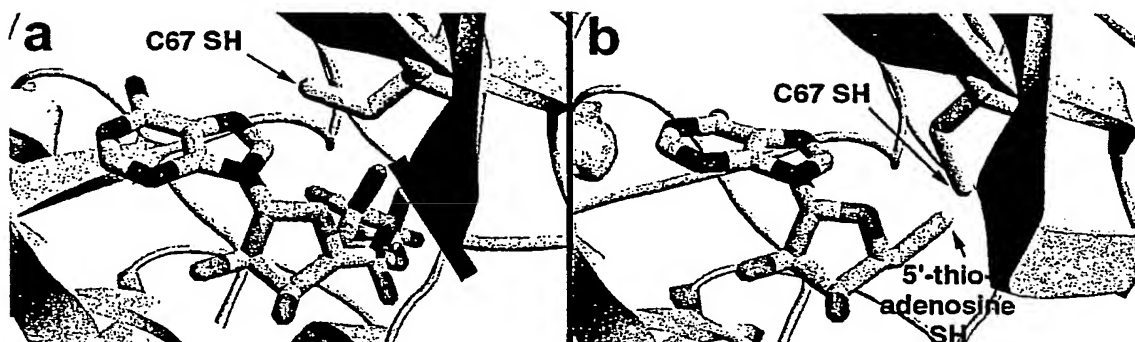


FIGURE 4

(5/13)

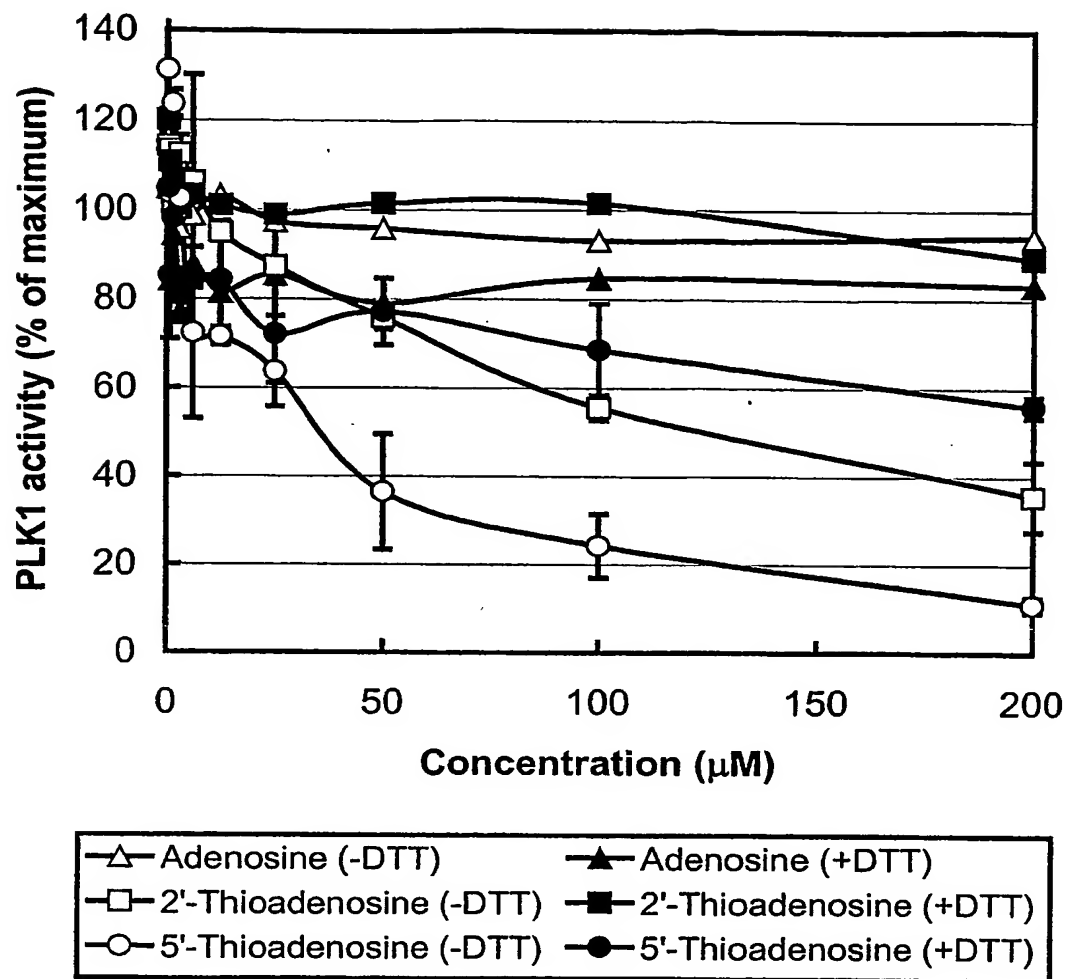


FIGURE 5

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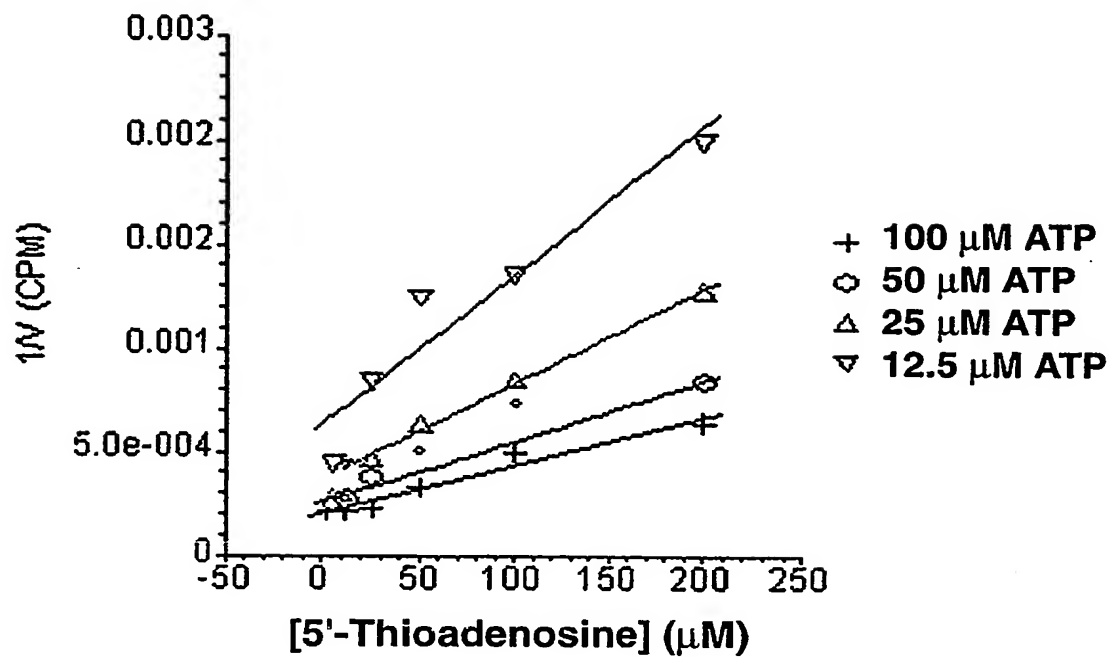
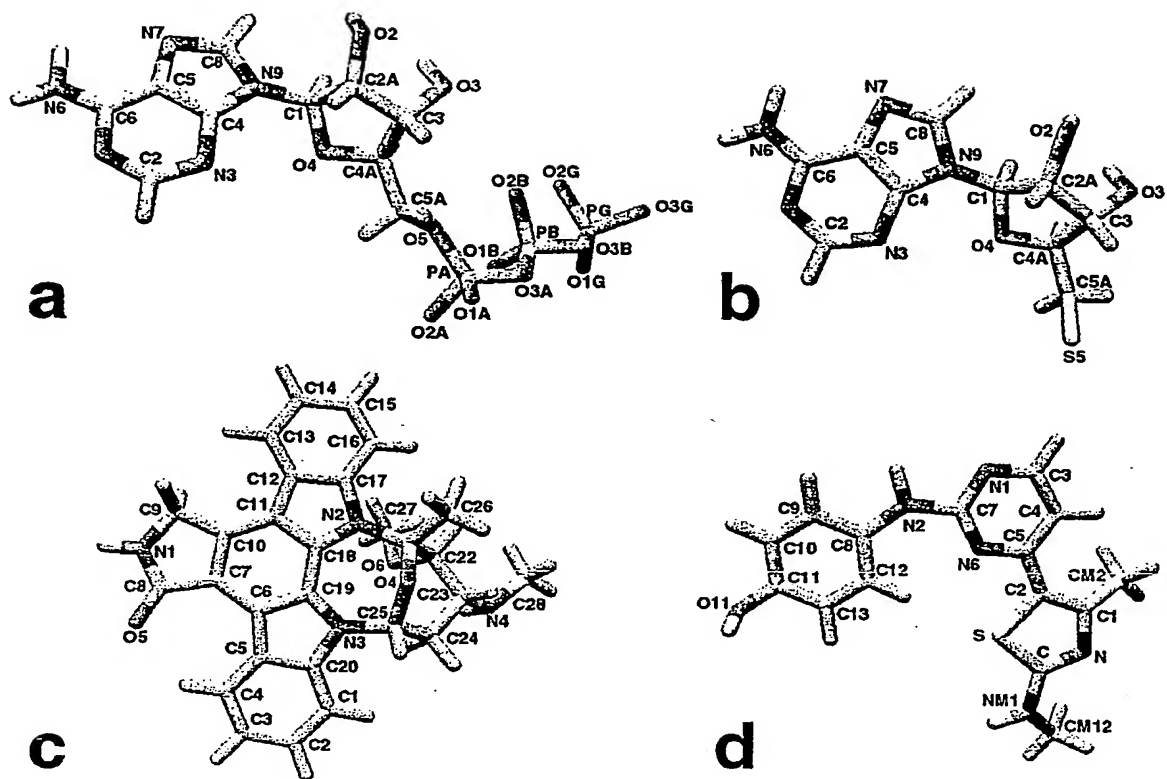


FIGURE 6

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**FIGURE 7**

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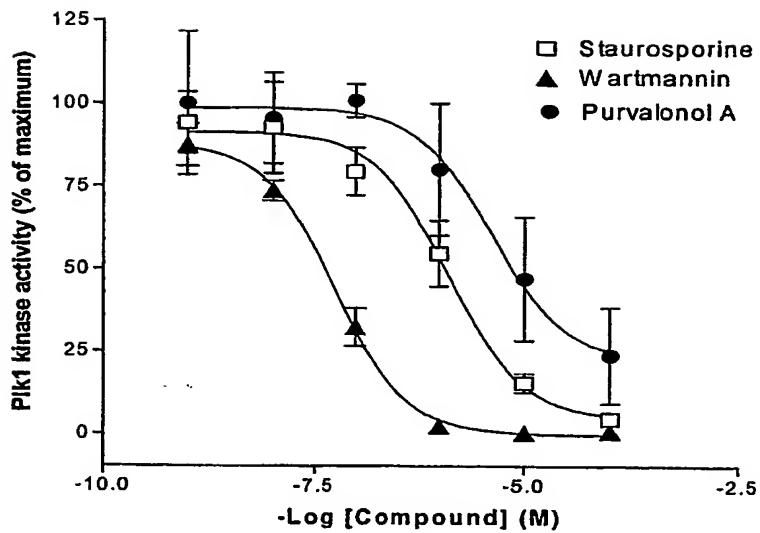


FIGURE 8

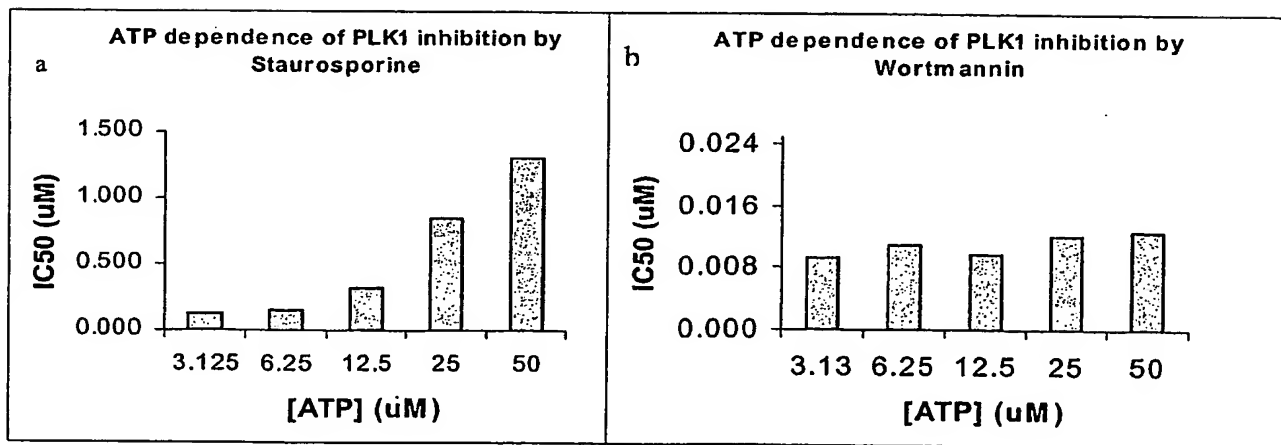


FIGURE 9

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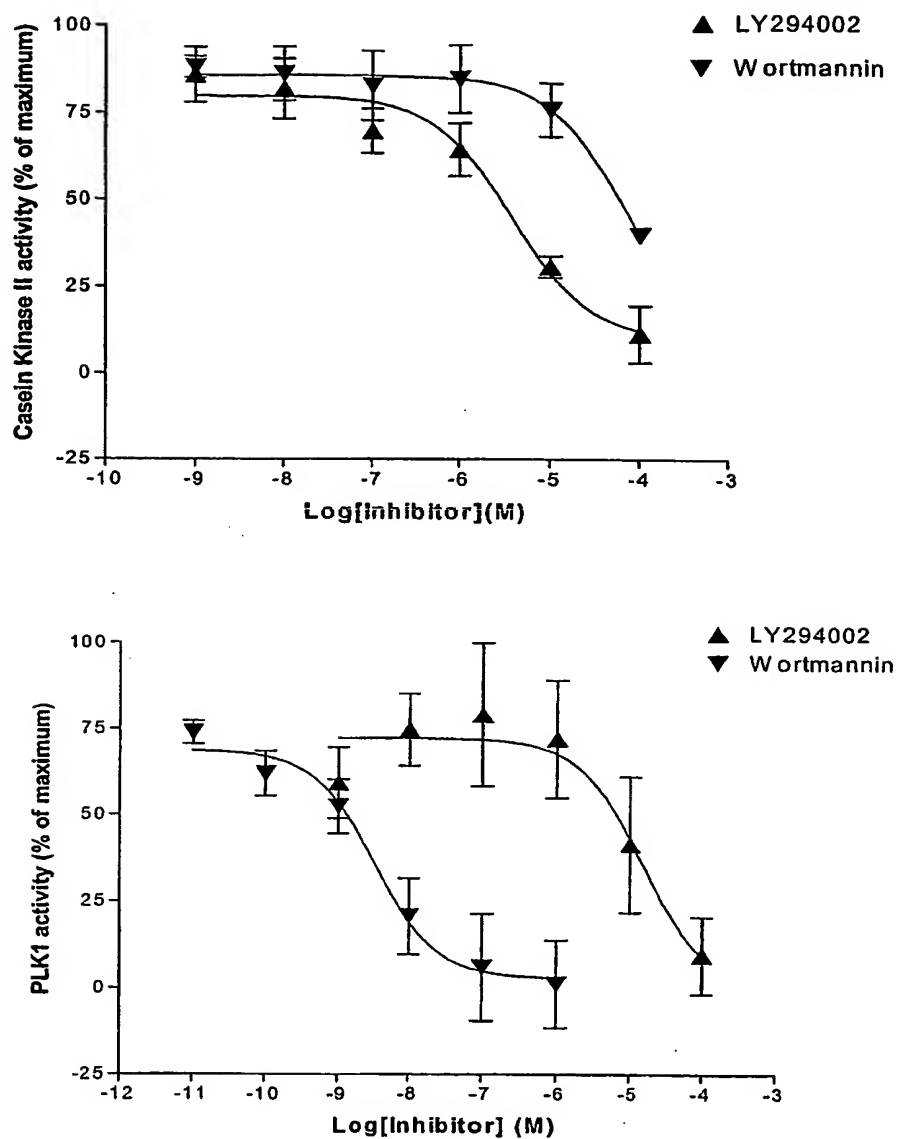


FIGURE 10

(10/13)

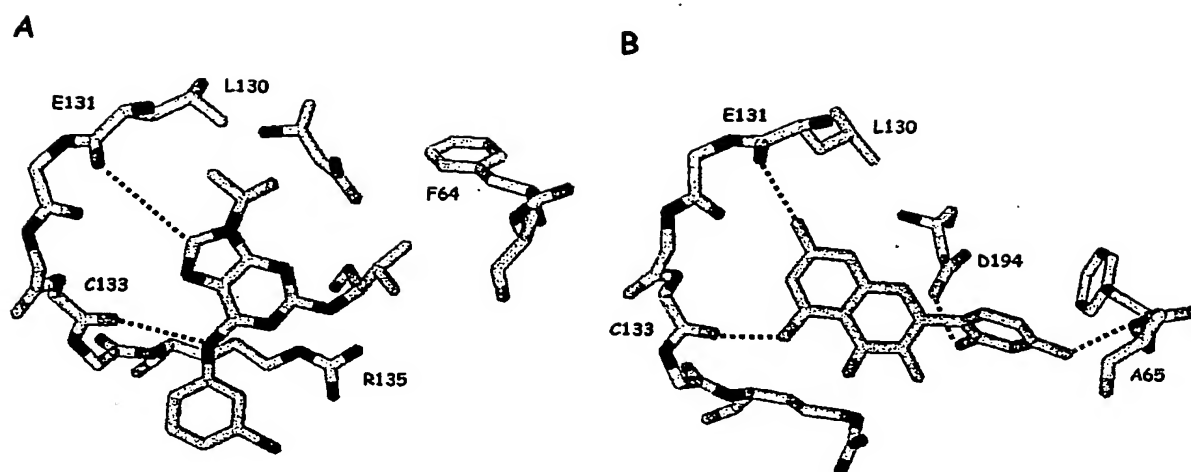


FIGURE 11

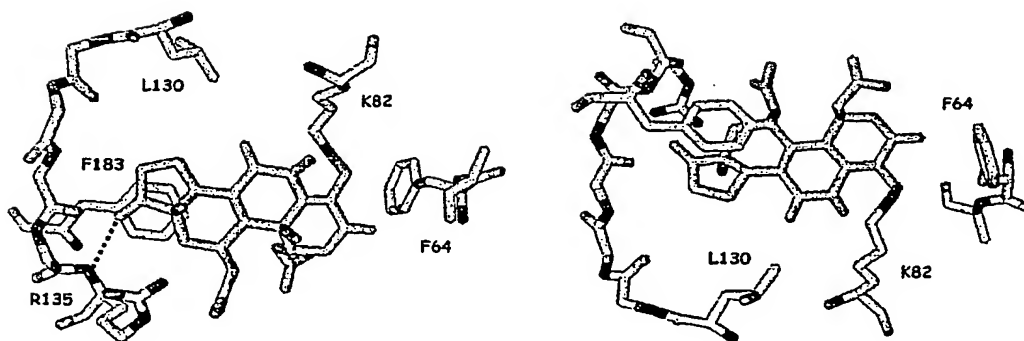


FIGURE 12

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- Control
- ▲ 0.2μM Inhibitor A
- ▼ 0.4μM Inhibitor A
- ◆ 0.8μM Inhibitor A
- 1.6μM Inhibitor A

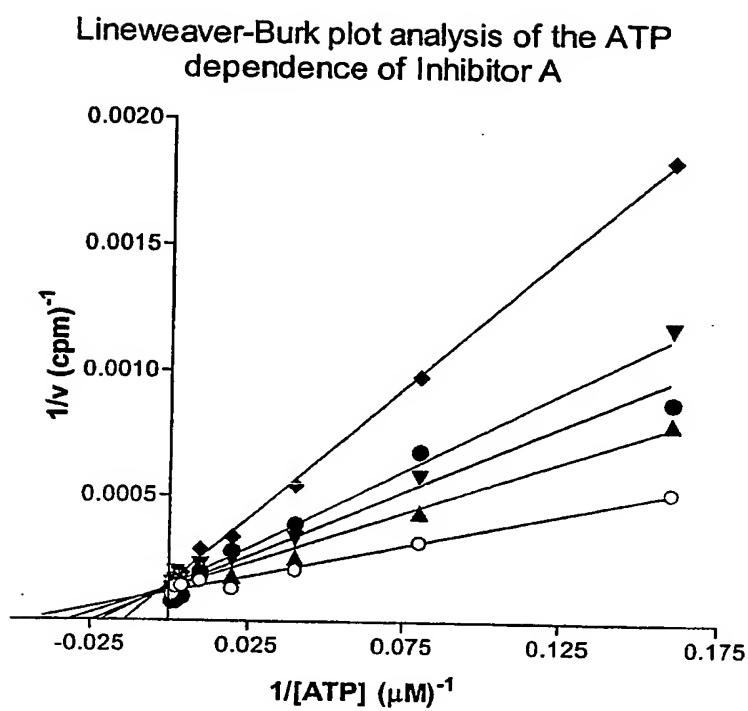


FIGURE 13

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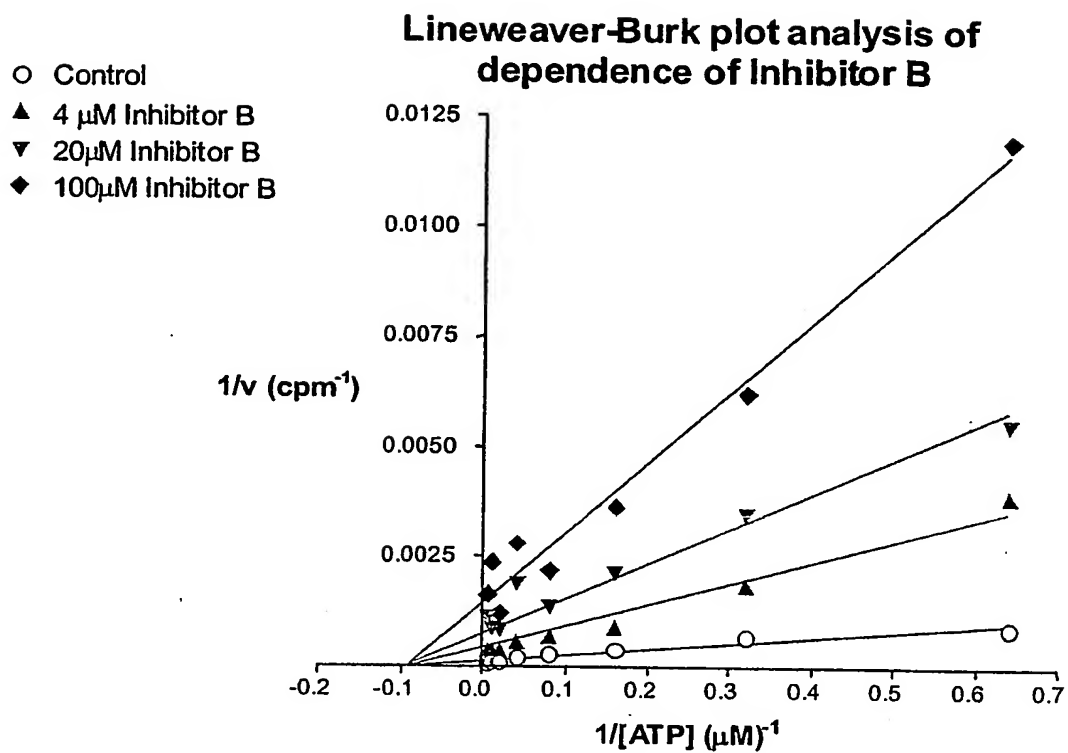


FIGURE 14

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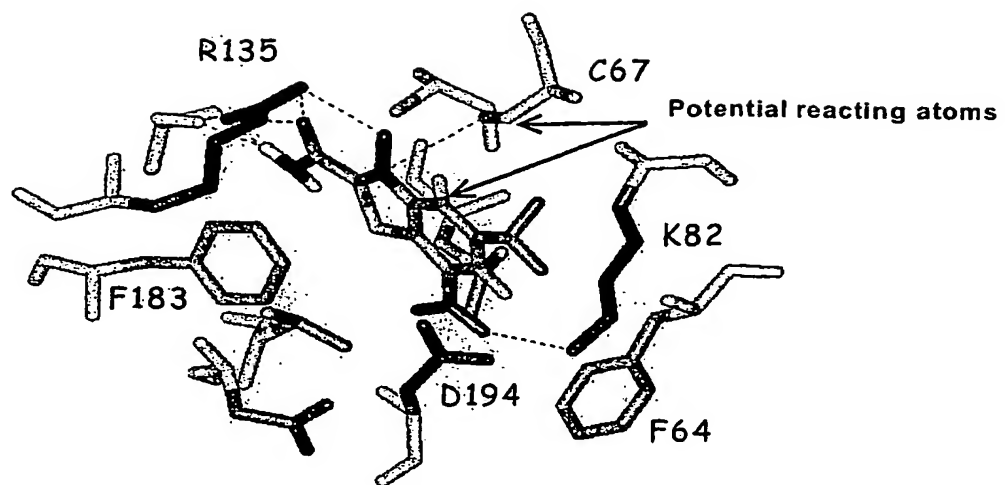


FIGURE 15

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